

C. Smith



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,824C

 ENTERED
 DATE: 06/10/2003
 TIME: 15:26:24

Input Set : N:\Crf4\06032003\I964824C.raw

Output Set: N:\CRF4\06102003\I964824C.raw

1 <110> APPLICANT: Horrigan, Stephen
 2 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
 3 Signature Gene Sets
 4 <130> FILE REFERENCE: 689290-73
 C--> 5 <140> **CURRENT APPLICATION NUMBER: US/09/964,824C**
 6 <141> CURRENT FILING DATE: 2001-09-27
 7 <150> PRIOR APPLICATION NUMBER: US/60/236,033
 8 <151> PRIOR FILING DATE: 2000-09-28
 9 <150> PRIOR APPLICATION NUMBER: US/60/236,032
 10 <151> PRIOR FILING DATE: 2000-09-28
 11 <150> PRIOR APPLICATION NUMBER: US/60/236,028
 12 <151> PRIOR FILING DATE: 2000-09-28
 13 <160> NUMBER OF SEQ ID NOS: 583
 14 <170> SOFTWARE: PatentIn version 3.0
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 17 <211> LENGTH: 521
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
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 21 <221> NAME/KEY: misc_feature
 22 <222> LOCATION: (1)...(521)
 23 <223> OTHER INFORMATION: n=a,t,g or c
 24 <400> SEQUENCE: 1
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 27 agaaggcaga aatgacgtgg accaggactc cttacatgga gagtgtttta aaggcagttt 180
 28 ttaaaaagcc cattttgtga aagaaaccag aaggctcgta attgctgtct gcactgtggt 240
 W--> 29 **ttctcctggg gggtggggag gggagtggat taaataaaaa gtttagaagg ccatagnata 300**
 30 aatatcgaaa tagtatgaat tttaatatat acttttaaaag gggtaggca atgatgaaaa 360
 31 gatatgactg ctttcctttc atttctcatt aaattaaaat tcccacaaaa gtgcatggca 420
 32 tctttttgaa acactgctaa ttttaaaagt tgggaagggt tatcttcata gccacaatct 480
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 36 <211> LENGTH: 481
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 2
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 41 aaagttcatg aatgaaataa aaaagacact ctcaaaatat taaaacctat ggaaagaaaa 120
 42 taagtaatta atgaatgatg tttttgtttc caaatacaat gaagtgattt tttattagag 180
 43 tccttgggaa tcatctaagt tacaatacag aagagaatta aataaatcgt atatgatttt 240
 44 gtaattagac actctatata tcacagttct ttgttaacct gggcatggaa cgtcctcata 300
 45 gcataatatt aaaaccatta atttttttta aaaaaatttg agacatgggt tgttcttggt 360

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Input Set : N:\CrF4\06032003\I964824C.raw

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46      ctctaaaatta tgtttcccca tttcccttga atgttctcta ttggccatct tctggaacat      420
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48      c                                                                    481
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56      tagcagccgg ccttcgggtc gggcgctctc cccggctact gccgcttcag ttcttccggg      120
57      gtggccacga gtcgggttg cacttctgtga tccatcctca tcttctaaag atgcatcctg      180
58      acttatctcc acacttgac actgaagaat gcaacgtctt gattaacttg ctttaaggaat      240
59      gtcacaaaaa tcacaacatt ctgaaatttt ttgggtattg taatgatgtt gatcgggggt      300
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68      ggtgaggagg cgccaccagg cgtgcggtcc gtcaagggtg tcttggtggg cgacggcggc      120
69      tgcgggaaga cgtcgtgct gatggtcttc gccgatggg ccttccccga gagctacacc      180
70      cccacggtgt ttgagcggta catggtcaac ctgcaagtga aaggcaaacc tgtgcacctc      240
71      cacatctggg acacagcagg gcaagatgac tatgaccgcc tgcggccctt gttctaccct      300
72      gacgccagcg tcttctgct ttgcttcgat gtcaccagcc cgaacagctt tgacaacatc      360
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74      ggctgcaaga ctgacctgcg caaggacaaa tcaactgggtg acaagctccg aagaaacgga      480
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77      gaggtggccc tcagcagccg cggtcgcaac ttctggcggc ggattaccca gggttttgc      660
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80      acagacgggc gccaccaaag ccaggccctg aggcctggga gtcctggact gagaaagggg      840
81      gttcctgggc ccacctgctc tgtgtagggc tgcctctgcg gtgcccgaga atcactcgct      900
82      aacccctatg cccgggtccc gaccgacatc ctggagccgc ctgtgcagcc tgatgcccccc      960
83      tcgtggctgc tcccagggt gcacctgcca ggacctaatg ttcttaggtc cctctggcca      1020
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85      tcactt                                                                    1086
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98      ccggctagat gagtgtcaga tgtacctggc acacgagcag gcgccccgaa gcgccaccgc      180
99      ttcatcactg agaaggcggg cttctcccgc tgggccaaaga agaggcccat cgtgttcgcc      240
100     catccgtcct ggaggactga gtagcttccg tcgtcctgcc agccgccatg ccgtttgcgag      300
101     gcctccggga tgtcccatcc caagccatca cactccacaa aaacatttaa tttatgggat      360
102     cctgcctcct gccacgtgct ggggtggganc ttaaggttcc ttcccacccc attgtgggcg      420
103     acatttgagag ccattttcag gcttccattc cctgagtaat tcatgggcat tttgggggtt      480
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112     aggacttggt ctgggacttg tcatcttgga tgctgctgtg actgccccaa ctctagagtc      120
113     catcaactat gactcagaaa cctatgatgc caccttagaa gacctggata atttgtacaa      180
114     ctatgaaaac atacctgttg ataaagttag gattgaaata gccacagtaa tgccttcagg      240
115     gaacagagag ctctccactc cccccccaca gcctgagaag gccacggaag aggaagagga      300
116     ggaggaatct actcccaggc tgattgatgg ctcttctccc caggagcctg aattcacagg      360
117     ggttctgggg ccacacacaa atgaagactt tccaacctgt ctttggtgta cttgtataag      420
118     taccaccgtg tactgtgatg accatgaact tgatgctatt cctccgctgc caaagaacac      480
119     cgcttatttc tattcccgtt ttaacagaat taaaaagatc aacaaaaatg actttgcaag      540
120     cctaagtgat ttaaaaagga ttgatctgac atcaaattta atatctgaga ttgatgaaga      600
121     tgcattccga aaactgcctc aacttcgaga gcttgctctg cgtgacaaca aaataaggca      660
122     gctcccagaa ttgccaaaca cttcgacatt tattgatatt agcaacaata gacttggaag      720
123     gaaagggata aagcaagaag catttaaaga catgtatgat ctccatcatc tgtacctcac      780
124     tgataacaac ttggaccaca tccctctgcc actcccagaa aatctacgag ccccttcacct      840
125     ccagaataac aacattctgg aaatgcacga agatacgttc tgcaatggta aaaatttgac      900
126     ttatatctgt aaggcactag aggacattcg attggatgga aaccctatta atctcagcaa      960
127     aactccacaa gcatacatgt gtctacctcg tctgcctggt gggagccttg tctaatttca      1020
128     gataatgggt agcattacga tggctactat aaataaacca ttcttactgc tctcttccaa      1080
129     aacaaaactc agcatgatac tttagagatt tgttctgaga gatgatatga ctacataaaa      1140
130     tacaattaaa aatgttataa tataatgaaa atgtagtaat ttaagaaaac accagatgag      1200
131     ttaggaataa acctataaca ttacaaaaa gagcaaaact aagtgataga aaatatttca      1260
132     cacatgttct tatagatcat gtatcacttg caagtttttag gagttcatat cctatatcat      1320
133     ttcaaatata gtacataata aagtaaaatt ttgaaatgaa cacttttaggt atttttgcca      1380
134     agatttagat gtttttaatt aaacttttct cttccttttt ttttctactaa ggcatgttta      1440
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136     aaaaaaaaaa aaaaa                                         1515
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139 <211> LENGTH: 480
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141 <213> ORGANISM: Homo sapiens
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143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (1)...(480)
145 <223> OTHER INFORMATION: n=a,t,g or c
146 <400> SEQUENCE: 7
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148     agcatgcctt acggagatct ggattcttat acactaagat gtgtcttaag aatcacagtg      120

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149      cgtgcttcat ccctttattg aagaacagaa aattatgact actctacaag gtggataata      180
150      ttttggtagc tgtggctggc cacagccctg ttccctcaaag ctgaattgat agattttctct      240
151      ttgacttcca agacctagca gttataaggc accttgaaat aaattgtttg tgccctggaaa      300
W--> 152      tgcaaggagg gcaatagctt tgtaaattgg nttacatttt tctccttgaa tttttctagg      360
153      gtcctagtgc ttccgaatca tttaattggc ttgtcggata tccttttaca tttcaattgc      420
154      aatccatgaa attacattta gaagattctt agtacttaac ggtagtcttc ccatgaattt      480
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157 <211> LENGTH: 416
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159 <213> ORGANISM: Homo sapiens
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (1)...(416)
163 <223> OTHER INFORMATION: n=a,t,g or c
164 <400> SEQUENCE: 8
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166      acattttaaa gtatataatt tgcattttcc accttctcaa tgccaatgaa atattctagg      120
167      agactctata agataaccaa ttgattttct actactccca aatttttaact ttgtaattta      180
168      aagaggaata ggcaaataga gctgctgtgg ttctggttct ccctgcagga tgaagggggc      240
169      ctgcaaaatg tctcctactt ccattctagg tcattcagca aggtgccttc ctctggatgc      300
170      actgtctgta tacttttgcc atgttgcac acataatgga ttctggccca cttacacca      360
171      ttttgactgt cagtaaaaga atggtatggg ggcccatttc ttcntttatt aatagc      416
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174 <211> LENGTH: 371
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176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 9
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179      agccactact gaggaggagg gtcccatctc tctcctgtcg gctttcaccg aggtcacagc      120
180      cagacgtggg gcaaagggtg tccctgtcct acccagccat tcctgggcct gccgcctagg      180
181      ggctcacagg gcccaggagt cccagctca caggccaggg catcaggcca ggcgcgctcg      240
182      gtgcacaccg cacctgtgga ggacctgggt acactcagga gaccaagagc actggcgggt      300
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187 <211> LENGTH: 419
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
190 <400> SEQUENCE: 10
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192      gcttaggacg ggcgggtgca atcctcgaag gggagtctca gcgaccatgg gggacaccat      120
193      ccacatgcag gcggtagtgt gggcctcggc agcgcctctc tgggggtgccg ggggtccctg      180
194      ttgccccctca gtgccctgtg gcgcaagggc tgcaggggcc ggctgttacc gctgaggctc      240
195      tggaagatct gagatggagg attctggctc aggagtctca gggagtgcac ctgaagggag      300
196      gtgatattga gggcccggtc aatgaggatc cagggtgacag tctcggagca gggcgggggtg      360
197      ctgagagagc cctgatagggt gatgaaaccg aagattcagg gaacaggagc tccaggctc      419
199 <210> SEQ ID NO: 11
200 <211> LENGTH: 270
201 <212> TYPE: DNA

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RAW SEQUENCE LISTING

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205     tgagctgcgg cacgcagagg tgccagccaa ttccgaggag aattgggtcc aatagaaata      120
206     tttacaaata accagggggc aggtgtgccg tgatcgggaa tcgtgaggga actgagtacc      180
207     agggggccct tggctcccaa cagcccagg ccctggggcg gacttggcac aggacccaag      240
208     agggaactgg ggcattgggg ggccggcaga                                270
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 255
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 12
215     tttagtttag caccatttat taagtgatct cagctgttgt tgtagctgct gcgtgtcacc      60
216     gtgttcttaa aacataaaat gctcttccga ttctcttgt ccaggacaga aggatcttcc      120
217     aggtagcacg ccaacagaac aagagactcc gatgacgcca gcttcaatga tggtgccatc      180
218     cagagaggga gagggtcatg gcacattcaa ccgcggcttc cagaggtttt gaaaaaggag      240
219     cctttggggg cccag                                           255
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222 <211> LENGTH: 358
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 13
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227     attatatgaa tactacaagc atccaacaag aaataacctt cataaattag cataatttat      120
228     agcaggaaac ccaataaac taaacttggc tgcctaaaat aatttgctta aagggggata      180
229     tgctctttgt aagtatcatg ctgataaaac cataaaaatt ctttttagagg aatgaggatt      240
230     aaaatgaaat ttctttatga cacggaaaaa aataataatt tgtctaaaag tgtaaaattt      300
231     taaaagcaaa cattatacac ataaccagca caattatttc catcttaaaa cattgggtt      358
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234 <211> LENGTH: 266
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 14
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240     ggcatctaca gggtcattcg aggaggaaca gattcaagct ttcggacgat cagtgttttg      180
241     taaatagcag catcatcaga tctaagacaa cattggacct ggcagggcct tttctttggg      240
242     tggcattaat tactccagat tcagac                                266
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 287
246 <212> TYPE: DNA
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 15
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250     ataacagtaa gcgaatcata caaatattga gaaaaaatgt tcctatgaat acatacatgt      120
251     atattcttaa gagtagcgat caggagttta acaacaaatg taaagtgggt ttctctaaag      180
252     aatgctttct gacaggcttt tgggttgga atggacaggt aaatcactgt cacataacag      240
253     gtaagctaag aataacttct gttacccaag tcatttgaac cctgtgg                                287
255 <210> SEQ ID NO: 16

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:5; N Pos. 66,69,389,483
Seq#:7; N Pos. 331
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Seq#:16; N Pos. 113,115,248,252
Seq#:17; N Pos. 15,386
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Seq#:22; N Pos. 330,361,419
Seq#:23; N Pos. 371,416
Seq#:24; N Pos. 217,232,315,333
Seq#:27; N Pos. 26,199
Seq#:28; N Pos. 145,222,228
Seq#:51; N Pos. 92,118,152,153,235,237,238,239,244,245,248,263,270,284
Seq#:52; N Pos. 12,352,359,400,408
Seq#:54; N Pos. 346,368
Seq#:55; N Pos. 180
Seq#:56; N Pos. 27
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Seq#:59; N Pos. 481
Seq#:63; N Pos. 104,120,188
Seq#:64; N Pos. 44,146,265,285
Seq#:65; N Pos. 11,130,133,190,313
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Seq#:68; N Pos. 146
Seq#:69; N Pos. 187,223
Seq#:70; N Pos. 3
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Input Set : N:\CrF4\06032003\I964824C.raw
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

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Input Set : N:\Crf4\06032003\I964824C.raw

Output Set: N:\CRF4\06102003\I964824C.raw

L:5 M:270 C: Current Application Number differs, Wrong Format
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240
M:341 Repeated in SeqNo=1
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
M:341 Repeated in SeqNo=5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
M:341 Repeated in SeqNo=21
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:300
M:341 Repeated in SeqNo=22
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
M:341 Repeated in SeqNo=24
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
M:341 Repeated in SeqNo=28
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
M:341 Repeated in SeqNo=51
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
M:341 Repeated in SeqNo=52
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:300
M:341 Repeated in SeqNo=54
L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:420
M:341 Repeated in SeqNo=57
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:480
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60
M:341 Repeated in SeqNo=63
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
M:341 Repeated in SeqNo=64
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
M:341 Repeated in SeqNo=65
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:360
L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120
L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120
M:341 Repeated in SeqNo=71
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
M:341 Repeated in SeqNo=77

VERIFICATION SUMMARY

DATE: 06/10/2003

PATENT APPLICATION: US/09/964,824C

TIME: 15:26:25

Input Set : N:\Crf4\06032003\I964824C.raw

Output Set: N:\CRF4\06102003\I964824C.raw

L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480
L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540